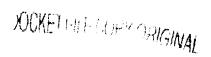
LAW OFFICES

ORIGINAL

PIERSON & BURNETT LLP.

1667 K Street, N.W. Suite 801 Washington, D.C. 20006 Tel: 202 466 3044 Fax 202 466 3055



September 30, 1997

VIA HAND DELIVERY

Mr. William F. Caton Federal Communications Commission Office of the Secretary 1919 M Street, N.W. Washington, D.C. 20554

Re: Ex Parte Submission

Notice of Proposed Rulemaking

ET Docket No. 95-183 RM-8553; PP Docket No. 93-253

Dear Mr. Caton:

On behalf of P-Com, Inc., copies of the attached letter and presentation materials were hand delivered today to each of the following members of the Commission's staff:

Jackie Chorney, Legal Advisor to Chairman Hundt
Suzanne Toller, Legal Advisor to Commissioner Chong
David Siddall, Legal Advisor to Commissioner Ness
Rudolfo Baca, Legal Advisor to Commissioner Quello
Daniel Phythyon, Chief, Wireless Telecommunications Bureau
Rosalind Allen, Deputy Bureau Chief, Wireless Telecommunications Bureau
David Horowitz, Chief, Private Wireless Division, Wireless Telecommunications Bureau
Herbert Zeiler, Deputy Chief, Private Wireless Division, Wireless Telecommunications Bureau
Robert James, Microwave Services Asst., Private Wireless Division, Wireless Telecommunications Bureau
Susan Magnotti, Staff Attorney, Private Wireless Division, Wireless Telecommunications Bureau
D'wana Terry, Chief Counsel, Wireless Telecommunications Bureau
David Wye, Technical Advisor, Wireless Telecommunications Bureau
Elliott Maxwell, Deputy Chief, Office of Plans and Policy

The instant submission is subject to the Commission's "permit-but-disclose" procedures under Rule Section 1.1106(a)(2) (see, 47 C.F.R. §1.1106(a)(2)). Accordingly, pursuant to Section 1.1206(b)(1) of the Commission's Rules, the original and four copies (two for each Docket number) of the above-

en i i de les riche C+4...

PIERSON & BURNETT, L.L.P.

Mr. William Caton September 30, 1997 Page 2

referenced items are being submitted for inclusion in the public record for the above-captioned proceeding. Please place a copy of this filing in the Commission's public file for the above-captioned dockets.

Any questions or inquiries regarding this filing may be directed to the undersigned.

Respectfully submitted,

Valerie M. Furman, Esq. Counsel for P-Com, Inc.

Attachments

LAW OFFICES

PIERSON & BURNETT LLP

1667 K Street, N.W. Suite 801 Washington, D.C. 20006 Tel: 202 466 3044 Fax: 202 466 3055

September 30, 1997

Federal Communications Commission 1919 M Street, N.W. Washington, D.C. 20554

Re: Notice of Proposed Rulemaking

ET Docket No. 95-183, RM-8553; PP Docket No. 93-253

On behalf of P-Com, Inc. ("P-Com"), we hereby submit the attached materials in support of Commission approval of point-to-multipoint operations in the 38 GHz frequency band for your review.

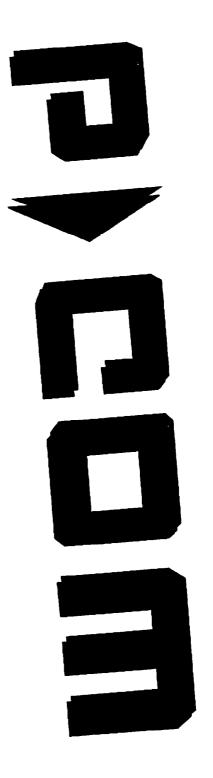
P-Com is a pioneer and world leader in the development and manufacturing of point-to-point equipment. Like others in the 38 GHz industry, P-Com feels strongly that point-to-multipoint is critical to the growth of 38 GHz operations, and wishes to move forward quickly with its development and production of point-to-multipoint equipment.

It is P-Com's interpretation that the Commission's current Part 101 Rules regarding the use of directional antennas appear to bar or inhibit point-to-multipoint operations at 38 GHz (see, Section 101.115 (c)), and P-Com has concluded that prior Commission approval would seem necessary in order to vary from the Category A antenna requirements prescribed therein. Accordingly, P-Com respectfully requests that the Commission take action in the above-captioned rulemaking proceeding to definitively permit point-to-multipoint operations at 38 GHz.

Any questions or inquiries regarding this filing may be directed to the undersigned.

Respectfully submitted,

Valerie M. Furman, Esq. Counsel for P-Com, Inc.



"Our Mission is to be a Leading Supplier of Telecom Distribution Equipment and Services for End User Access to the World-Wide Network."



Point to Multi-Point Radio System Requirements Presentation to the FCC 9

Presentation Summary

- P-Com inc
- **Point to Multi-Point System Features**
- Spectrum Efficiencies
- FCC Rules
- **P-Com Proposal for Point to Multi-Point**

P-Com Inc.

- wave radios for Point to Point applications. **P-Com Designs and Manufactures millimeter**
- Radios in frequency bands 2 to 50 GHz.
- Domestic and world wide sales.
- 1993. Shipments of 25,000 radio terminals since
- **Developing Point to Multi-Point Systems for** millimeter wave bands.



Point to Multi-Point System Features

- Using state of the art technology to provide **Bandwidth-on-demand service.** multiple users per central hub station with
- Capacities adjustable on demand from 64 kb/s to **155 Mb/s per remote site.**
- Supports asymmetric traffic rates.
- **Gentral sector subsystems with 1 to 24 sectors** per hub; 15 to 360 degrees.
- Capacity for up to 250 remote sites per sector.
- Coverage from hub of 1 to 10 km.



System Over

P-COM Wireless MAN Solution

WaveLink High-Capacity Terminal WaveLink Sector WaveLink Hub
with Traffic Concentrator Point-to-Multipoint WayeLink Cell (1 - 24 Sectors) WaveLink
Standard Remote
Terminal WaveLink Access Terminal Regional Operations Center (ROC) WaveView NMS Router Network Operations WaveView NMS Center (NOC) Router Other Cells VIDEO TELEPHONY FRAME RELAY SERVICES

"Network Solutions for Global Wireless Communications"

PTM Presentation Slide: Part 2 - 4

Hub Sector Antenna Gain

30°

22 dBi

150

25 dBi

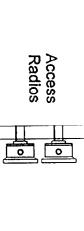
450

20 dBi

600

19 dBi

Hub



- Installed ODUs

4" Pipe Support-

@ @

- Horizontal

900

17 dBi

50-100 Elevation Coverage

Vertical

L DUAL POLARIZED HORN

L RADOME

- "Network Solutions for Global Wireless Communications"











PTM Presentation Slide: Part 2 - 21

Point to Point Spectrum Efficiencies Point to Multi-Point

- One radio link/user
- Many antennas at Hub
- Links are fixed capacity
- Up-down link same capacity
- Existing technology
- 10 T1 customers/50 MHz
- 1 DS3 customer/50 MHz

- [24sectors*250 remotes] 6,000 users/Hub
- Max 24 antennas
- Dynamic BW sharing
- Dynamic demand based
- Point to Multi-Point
- 105 T1 customers/50 MHz
- Higher for sub-rates

FCC Rules

- Section 101.115 requires "Directional Antennas" exceptions: be used with each microwave station with two
- Unless otherwise authorized upon specific request by the applicant.
- Where a station communicates with more than may be authorized if necessary. one point, a multi- or omni-directional antenna
- Section 115, subsection c defines antenna specifications for frequencies above 31 GHz
- Standard A and Standard B.

P-Com Proposal for Point to Multi-Point

- Since Section 115 does not facilitate Point to **Multi-Point operation.**
- **P-Com proposes a relaxation on the rules** regarding antenna requirements.
- Specifically above 31 GHz, propagation enables good frequency reuse.
- Frequencies above 31 GHz the natural choice for high capacity local loop systems.

P-Com Proposal Continued

- **Co-existence with Point to Point is possible** and facilitated by Private frequency coordination the responsibility of the licensee.
- Required antenna gain relaxations for frequencies above 31 GHz will be in the range 13-21 dB.
- **Business development of Point to Multi-Point** will maintain US lead in exploiting millimeter wave frequency bands.